

What is claimed is:

1. A device providing a combined bucket and scarifier comprising:

a bucket having a bottom wall, a rear wall, and two side walls coupled to the bottom wall and the rear wall to define an interior space, the bucket having an open front end and the rear wall being generally rectangular having a long axis,

a scarifier operatively associated with the bucket, the scarifier having a plurality of teeth constructed and arranged to be moved with respect to the bucket between a stored, inoperative position, and an operative position with portions of the teeth extending outwardly with respect to a portion of the bottom wall of the bucket, and

actuating structure mounted with respect to the bucket, the actuating structure including at least one cylinder unit having a piston, and linkages coupled between the piston and teeth such that movement of the piston causes movement of the linkages thereby causing movement of the teeth between the inoperative and operative positions, the cylinder unit being mounted with respect to the rear wall such that the piston extends generally along the long axis of the rear wall.

2. The device of claim 1, wherein the rear wall includes a top edge, the cylinder unit being mounted to the top edge.

3. The device of claim 1, wherein in the operative position thereof, the teeth extend at an angle with respect to the bottom wall such that distal ends of the teeth face

rearward.

4. The device of claim 1, wherein the actuating structure is constructed and arranged to rotate the teeth simultaneously to move the teeth between the inoperative and operative positions.

5. The device of claim 1, wherein the teeth are coupled to a common rotatable shaft, the linkages being constructed and arranged to transfer linear motion of the piston to rotational motion to rotate the common rotatable shaft.

6. The device of claim 1, wherein the teeth are coupled to a common rotatable shaft, the linkages include a first linkage pivotally coupled at one end thereof to the piston, a transfer linkage coupled to the first linkage, a second linkage pivotally coupled to the transfer linkage, a third linkage pivotally coupled to the second linkage at one end with another other end of the third linkage being pivotally coupled to a rocker linkage, the rocker linkage being pivotally coupled to a fourth linkage that is pivotally coupled with a portion of the common rotatable shaft.

7. The device of claim 5, wherein the piston and linkages are constructed and arranged such that when the piston is extended, the teeth are in the inoperative position and when the piston is retracted, the teeth are in the operative position.

8. The device of claim 6, wherein the piston and linkages are constructed and

arranged such that when the piston is extended, the teeth are in the inoperative position and when the piston is retracted, the teeth are in the operative position.

9. The device of claim 1, wherein the piston is constructed and arranged such that when the piston is extended, the teeth are in the inoperative position and when the piston is retracted, the teeth are in the operative position.

10. The device of claim 1, wherein the bottom wall includes a generally planar portion and a portion extending upwardly at an angle with respect to the planar portion defining a space at bottom of the bucket, at least a portion of the teeth being disposed in the space when in the inoperative position, and extending from the space when in the operative position.

11. The device of claim 1, wherein the cylinder unit is constructed and arranged to be hydraulically operated.

12. The device of claim 1, wherein a side of the cylinder unit is substantially flush with the rear wall.

13. The device of claim 1, wherein mounting structure is provided on the rear wall, the mounting structure being constructed and arranged to removably coupled the device to a loader.